NC/QC/YPD/SIP-01/2017-18/MN-C1 Date: 12-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Main roads and drains at Maruthi Nagara.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : JAYPEE
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**151 min**	Shall not be less than 30 min
2	Final setting time	**253 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.12 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.03mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.73 N/Sq mm**	Shall not be less than 27 N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

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Bangalore

For Newzen Consultants Bangalore

Proprietor

NC/QC/YPD/SIP-01/2017-18/MN-PCC1 **Date: 12-03-2018**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Main roads and drains at Maruthi Nagara.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**64.30**	0 -20	30- 70
10mm	**18.50**	0 -5	10- 35
4.75mm	**3.85**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.15**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.25**	60-95	75-100	85-100	
01.18	**67.10**	30-70	55-90	75-100	
600.mic	**46.55**	15-34	35-59	60-79	
300.mic	**18.20**	5-20	8-30	12-40	
150.mic	**6.40**	0-10	0-10	0-10	

*As Furnished by Client.
The Results relate only to the items tested.

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Bangalore

For Newzen Consultants Bangalore

Proprietor

Newzen Consultants Bangalore

NC/QC/YPD/SIP-01/2017-18/MN-C2 Date: 14-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Main roads and drains at Maruthi Nagara.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : JAYPEE
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**256 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.06%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.01 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.85 N/Sq mm**	Shall not be less than 27 N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

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NC/QC/YPD/SIP-01/2017-18/MN-PCC2 **Date: 14-03-2018**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Main roads and drains at Maruthi Nagara.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	67.25	0 -20	30- 70
10mm	17.45	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.25	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.60	60-95	75-100	85-100	
01.18	62.40	30-70	55-90	75-100	
600.mic	48.10	15-34	35-59	60-79	
300.mic	16.30	5-20	8-30	12-40	
150.mic	6.50	0-10	0-10	0-10	

*As Furnished by Client.
The Results relate only to the items tested.

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Bangalore

For Newzen Consultants Bangalore
Proprietor

NC/QC/YPD/SIP-01/2017-18/MN-C3 Date: 16-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Main roads and drains at Maruthi Nagara.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : JAYPEE
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**142 min**	Shall not be less than 30 min
2	Final setting time	**251 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.93 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.04 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.76 N/Sq mm**	Shall not be less than 27 N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

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For Newzen Consultants Bangalore
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NC/QC/YPD/SIP-01/2017-18/MN-FA1 **Date: 16-03-2018**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Improvements to Main roads and drains at Maruthi Nagara.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.60**	60-95	75-100	85-100	
01.18	**67.25**	30-70	55-90	75-100	
600. mic	**50.05**	15.34	35-59	60-79	
300.mic	**21.30**	5-20	8-30	12-40	
150.mic	**5.20**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**15.96 %**	-----
2	Silt Content	----	**0.54 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

*As Furnished by Client.
The Results relate only to the items tested.

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NC/QC/YPD/SIP-01/2017-18/MN-CA1 Date: 16-03-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Improvements to Main roads and drains at Maruthi Nagara.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**98.30**	85-100	90 - 100
10 mm	**35.10**	0 - 20	25 - 55
4.75 mm	**6.05**	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**22.09%**	Not to exceed 25 %
2.	Crushing value	**26.16 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

*As Furnished by Client.
The Results relate only to the items tested.

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NC/QC/YPD/SIP-01/2017-18/MN-S1 Date: 16-03-2018

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 mm **TMT Steel.**
{Project*: Improvements to Main roads and drains at Maruthi Nagara.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0 mm**	12.0 mm
02	Observed Wt/m Length **Kg/m**	**0.621**	0.567	**0.883**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**548.0**	500.0	**553.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**21.30**	12.00	**20.50**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**637.0**	545.0	**30**	545.0

*As furnished by Client.
The Results relate only to the items tested.

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Newzen Consultants Bangalore

NC/QC/YPD/SIP-01/2017-18/MN-CB1 Date: 24-03-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Main roads and drains at Maruthi Nagara.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-03-18	24-03-18	07	22500	360	16.00	**16.52**
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	375	16.67	

*As Furnished by Client.
The Results relate only to the items tested.

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NC/QC/YPD/SIP-01/2017-18/MN-CB2 Date: 26-03-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Main roads and drains at Maruthi Nagara.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-03-18	26-03-18	07	22500	385	17.11	**16.74**
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	380	16.89	

*As Furnished by Client.
The Results relate only to the items tested.

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